QAA29.01/ALG

QAA29.11/ALG

QAA29.01/ALG
QAA29.11/ALG

Room Unit

For use with DESIGO RXA controllers

- **Room temperature measurement**
- **Room temperature set - point adjuster**
- **Manual fan speed selector (only on QAA29.01/ALG)**

Use

The room unit is used in rooms controlled by an individual room control system, to measure the room temperature and for the manual operation of a room controller.

Ordering

When ordering, please specify the quantity, product name and type code.

Example 30 Room units QAA29.01/ALG

Equipment combinations

The room unit is suitable for use in conjunction with DESIGO RXA room controllers, such as RXA20.1, RXA21.1, RXA29.1.
The QAA29.01/ALG must not be used for an electric heating application (no use with RXA22.1).

Mechanical design

The room unit is designed for surface mounting on a recessed conduit box with the cables connected from the rear.
The unit comprises a housing and base unit, connected by screw fittings.
The base unit accommodates the screw terminals, which have an integrated terminal strip.
The housing accommodates a printed circuit board, room temperature sensor element, setpoint adjuster and fan speed selector (only on QAA29.01/ALG).

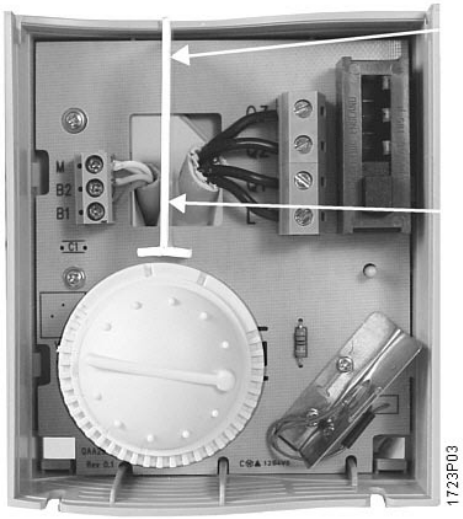
Engineering notes

The device receives its power from the connected controller. Only one room unit may be connected to each controller.
A four-core twisted pair cable is required for the low voltage connection to the controller. Screening is not required.
Four cables are required for the 230 volts connection to the controller (only for QAA29.01/ALG).

⚠ Safety prescriptions (QAA29.01/ALG)

Switch off the 230 V power supply before you open the unit!

The installation (dimension of wires and fuses) must be done according to the local prescriptions.
Special care must be taken in order to guarantee a proper separation of the 230 V wires from the wires that conduct low voltage (SELV).

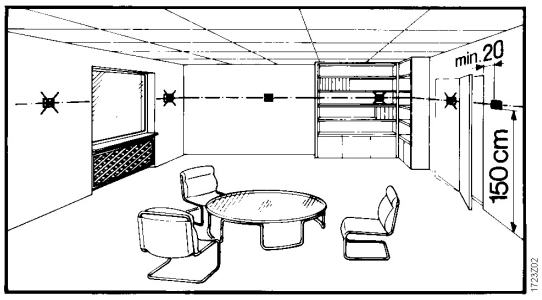


This wall separates the terminals for the 230 V wires from the terminals for the low voltage (SELV) wires. Take care that the cover of the unit can be closed properly after connecting the wires.

Make sure that the wires of the low voltage and the wires of 230 V are correctly isolated from each other. The low voltage cable should have an isolation for 230 V in order to have a proper double isolation between the 230 V and the low voltage even when these wires are in contact with each other.

⚠ Mounting

The room unit is suitable for mounting on a recessed conduit box.
Do not mount in recesses, shelves, behind curtains or doors, or above or near heat sources.
Avoid direct exposures to direct sunlights or draughts.
The electrical wiring conduit must be sealed where it joins the room unit, to prevent the occurrence of draughts in the conduit, which could affect the sensor.
The specified ambient conditions must be complied with.



Disposal notes

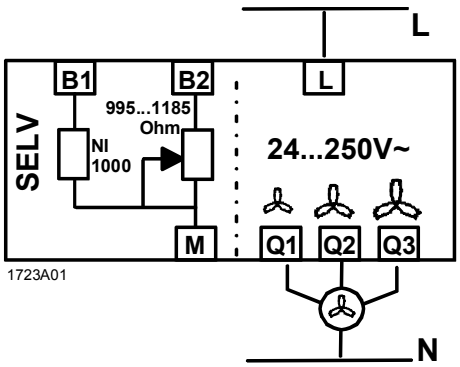
As an aid to environmentally responsible proposal, the larger plastic components bear a material description in accordance with ISO/DIS 11 469. The device should not simply be disposed with household waste. The pcb and the plastic components must be separated and sorted into the appropriate waste collection containers.

Technical Data

General data	Range of use	0…50 °C
	Setting range	+/–3 K
	Max. permissible line lengths and measured value errors	See Desigo RXA installation guide CA2Z3884
	Connection terminals for cross-sectional areas of	2 x 1.5 mm^2 or 1 x 2.5 mm^2
Standards	Safety class	II (QAA29.01/ALG) (if correctly installed) or III (QAA29.11/ALG) to EN 60 529
	Degree of protection	IP 30 to EN 60 529
	Pollution degree	2 according to EN 60 730-1. Pollution degree 2 is representative of normal household air circulation
	CE Conformity EMC directive Low voltage directive – Electrical safety	 89/336/EEC 73/23/EEC EN 60 730-1 (QAA29.01/ALG)
Environmental conditions	Operation	to IEC 721-3-3
	Climatic conditions	class 3 K5
	Temperature	0…50 °C
	Humidity	< 85 % r.h.
	Transport	to IEC 721-3-2
	Climatic conditions	class 2 K3
	Temperature	–5…+65 °C
	Humidity	< 95 % r.h.
	Mechanical conditions	class 2M2
Sensor	Sensing element	LG-Ni 1000
	Timing constant	7 min (depending on air movement and thermal coupling on the wall)
Setpoint setting knob	Setpoint setting range	+/–3 K
	Resistor range	995…1 185 Ω
	Defined resistor values:	
	–3 K	1 000 Ω
	0 K	1 092 Ω
	+3 K	1 175 Ω
Manual fan speed selector switch	Voltage	230 V AC
	Output current	max. 6 (2) A (This is the maximum allowed current which must not be exceeded even under abnormal conditions of the load).
	Current protection in supply lines	max. 10 A.
Other features	Weight	0.130 kg (QAA29.11/ALG) 0.160 kg (QAA29.01/ALG)

Connection diagram

QAA29.01/ALG



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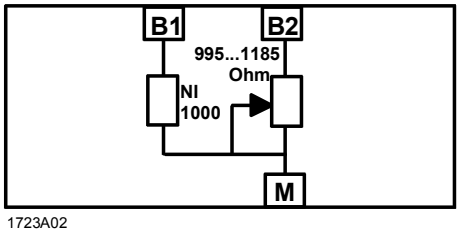
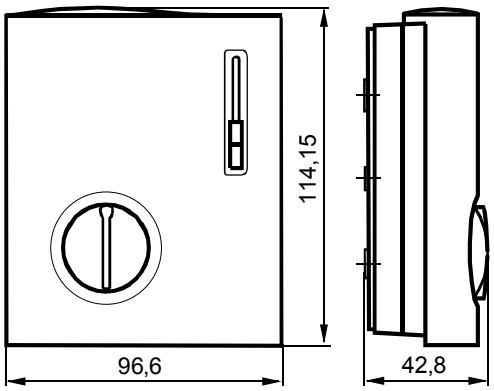
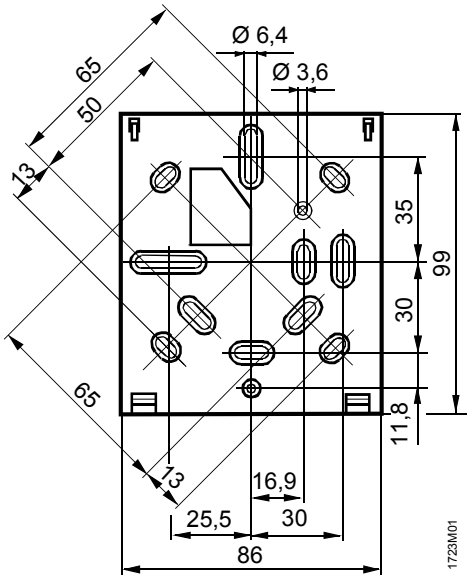


Dimensions

Controller with Baseplate





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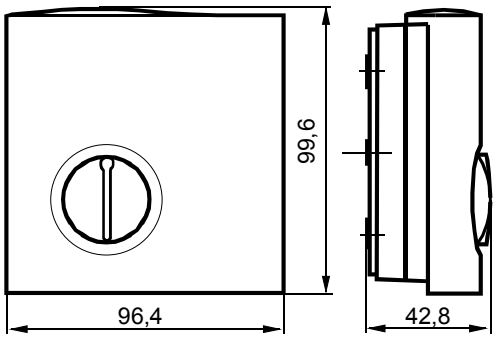

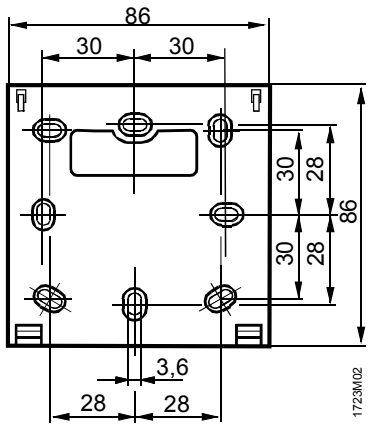

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